



SAFETY DATA SHEET



1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: PC-1/PC-8

Company/undertaking identification:

Registered company name: VISHAY MEASUREMENTS GROUP UK LTD
 Address: Stroudly Road Basingstoke Hampshire RG24 8FW ENGLAND.
 Telephone: +44 (0) 1256 462131 Fax: +44 (0) 1256 471441
 Email : vmm.us@vishaymg.com

Emergency telephone: (00-1) 703-527-3887.

Association/Organisation: CHEMTREC.

2 - HAZARDS IDENTIFICATION

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site

Possibility of irritation to the eyes and skin.

Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.

Possibility of category two carcinogenic effects.

Possibility of category three mutagenic effects.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Preparation classification:


Toxic



Dangerous for the environment

R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 43	May cause sensitisation by skin contact.
R 36/38	Irritating to eyes and skin.
R 45	May cause cancer.
R 68	Possible risk of irreversible effects.
	For professional use only.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
603-067-00-X	122-60-1	204-557-2	PHENYL GLYCIDYL ETHER	T	45.C2 37/38 43 68 52/53 20 Note(s): E	2.5 <= x % < 10

Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%
	25036-25-3		REACTION PRODUCT OF EPICHLOROXYDRIN AND BISPHENOL A	Xi N	36/38 43 51/53	50 <= x % < 100

Substances present at a concentration below the minimum danger threshold:

INDEX	CAS	EC	Name	Symb.	R:	%
601-026-00-0	100-42-5	202-851-5	STYRENE	Xn	10 20 36/38	1 <= x % < 2.5

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
013-001-00-6	7429-90-5	231-072-3	ALUMINIUM POWDER (PYROPHORIC).	F	15 17	10 <= x % < 25

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

DO NOT use solvents or thinners.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Call a doctor immediately and show him the label.

5 - FIRE-FIGHTING MEASURES

Not relevant.

Special protective equipment for fire-fighters:

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

If a large amount has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Anyone with a history of skin sensitisation must on no account handle such products

Handling:

Handle in well-ventilated areas.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position

Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used
Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation must on no account handle such products.

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
122-60-1	1	6	-	-	C2.M3	-
100-42-5	50	215	-	-	-	84
7429-90-5	-	10	-	-	-	-

Exposure limit values (2003-2006):

Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:		
100-42-5	20 ml/m3	86 mg/m3	2(II)	DFG, Y		
UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
100-42-5	100 ppm	250 ppm	-	-	-	
Switzerland	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
122-60-1	6 mg/m3	1 ppm	-	-	-	R S
100-42-5	85 mg/m3	20 ppm	170 mg/m3	40 ppm	4x15	B
7429-90-5	3A mg/m3	-	-	-	-	B
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
100-42-5	100 ppm	250 ppm	-	-	-	
7429-90-5	2 mg/m3	-	-	-	-	
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7429-90-5	10 mg/m3	-	-	-	TI	
7429-90-5	4 mg/m3	-	-	-	R	
7429-90-5	2 mg/m3	-	-	-	-	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
122-60-1	0.1 ppm	-	-	-	-	
100-42-5	20 ppm	40 ppm	-	-	-	
7429-90-5	10 mg/m3	-	-	-	-	
7429-90-5	2 mg/m3	-	-	-	-	
7429-90-5	5 mg/m3	-	-	-	-	

Respiratory protection:

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Avoid contact with eyes.

Wear safety goggles.

Provide eye washes in workshops where the product is constantly handled

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES**General information:**

Physical state:	fluid liquid
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Important health, safety and environmental information:

pH of the substance or preparation:	not relevant.
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The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range:	201 °C.
Flash point interval:	Flash point > 60°C
Flash point:	93.00 °C.
Vapour pressure:	not relevant.
Density:	> 1
Density:	1.11
Water solubility:	Partially soluble.
Vapour density:	> 1 (Air=1)

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

Conditions to avoid:

High temperatures.

Materials to avoid:

Keep away from amines, mercaptans, oxidizing agents, acids, strong bases, ammonia to avoid exothermic reactions.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to vapors from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as: Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause the appearance of major lesions which persist for at least twenty-four hours after application to the eye of an animal

and are likely to cause significant irritation which lasts for at least twenty four hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route

It is generally agreed that substances contained are likely to cause category 2 carcinogenic effects.

It is generally agreed that substances contained are likely to cause category 3 mutagenic effects.

Other data:

CAS 100-42-5 : IARC Groupe 2B (The agent is possibly carcinogenic to humans).

CAS 122-60-1 : IARC Groupe 2B (The agent is possibly carcinogenic to humans).

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Ecotoxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other adverse effects:

Germany: WGK 3 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

Classification:



Pollutants to the aquatic environment:



UN2810=TOXIC LIQUID, ORGANIC, N.O.S.
(phenyl glycidyl ether)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	6.1	T1	III	6.1	60	LQ7	274 614	E1	2	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	6.1	-	III	5 L	F-A,S-A	223 274	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	6.1	-	III	611	60 L	618	220 L	A3 A4 A137	-	-
	6.1	-	III	Y611	2 L	-	-	A3 A4 A137	-	-

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations. In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account. In addition directive 2009/2/EC with the 31° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account. In addition Regulation (EC) No 1272/2008 have been taken into account.

This product is not classed as flammable.

Preparation classification:



Toxic



Dangerous for the environment

Contains:

	REACTION PRODUCT OF EPICHLOROHYDRIN AND BISPHENOL A
204-557-2	PHENYL GLYCIDYL ETHER

Particular hazards associated with the preparation and safety recommendations:

R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 43	May cause sensitisation by skin contact.
R 36/38	Irritating to eyes and skin.
R 45	May cause cancer.
R 68	Possible risk of irreversible effects.
	For professional use only.
S 36/37	Wear suitable protective clothing and gloves.
S 43	In case of fire, use carbon dioxide, chemical powders, foams, and other extinguishing gases. Never use water.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 53	Avoid exposure - obtain special instructions before use.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 38	In case of insufficient ventilation, wear suitable respiratory equipment.
S 60	This material and its container must be disposed of as hazardous waste.

S 8	Keep container dry.
	Product submitted to restrictions on the marketing and use: see Regulation (EC) No 1907/2006.

Particular provisions:

Product not to be sold to the general public. (Dir 76/769/EC) - For professional use only.

Attention - Avoid exposure - obtain special instructions before use.

Germany: WGK 3 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

R 10	Flammable.
R 15	Contact with water liberates extremely flammable gases.
R 17	Spontaneously flammable in air.
R 20	Harmful by inhalation.
R 36/38	Irritating to eyes and skin.
R 37/38	Irritating to respiratory system and skin.
R 43	May cause sensitisation by skin contact.
R 45.C2	May cause cancer.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 68	Possible risk of irreversible effects.